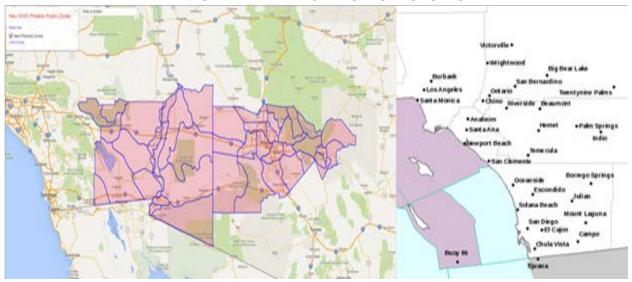
# Appendix A Public Notification that a potential event was occurring (40 CFR §50.14(c)(1))

### FIGURE A-1 NATIONAL WEATHER SERVICE PUBLIC ZONES

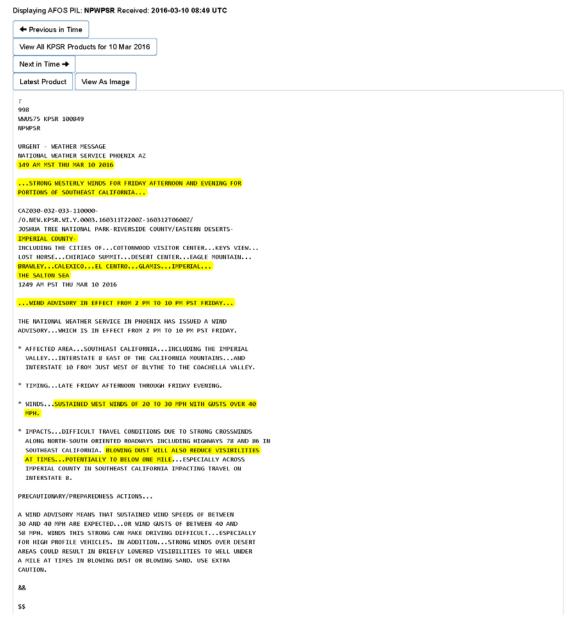


**Fig A-1:** Illustrates the public zones serviced by the National Weather Service Office in Phoenix and San Diego. Imperial County, including southeast sections of Riverside County are part of the reporting public zone areas from the Phoenix office

The Appendix A Supplemental contains all the pertinent National Weather Service notices issued by either the San Diego or Phoenix office in date and time order.

### FIGURE A-2 WIND ADVISORY DECLARED FOR IMPERIAL COUNTY

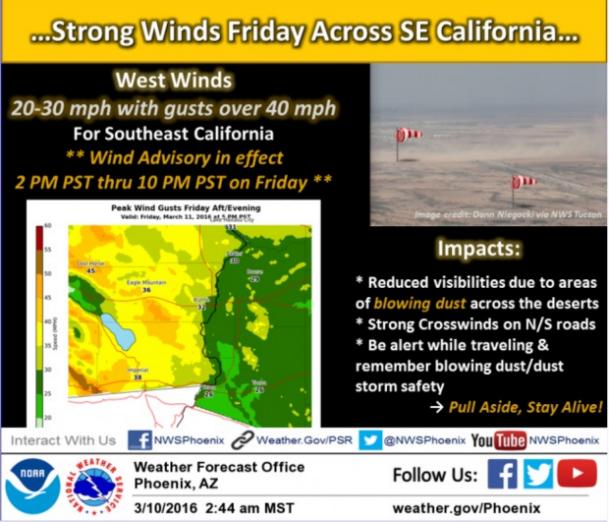
National Weather Service Raw Text Product



**Fig A-2:** As early as 1:49 a.m. MST on March 10, 2016 the NWS Phoenix office issued a Wind Advisory for Imperial County and neighboring areas in anticipation of the vigorous weather system. Winds of 30 mph gusting to 40 mph were forecasted, along with blowing dust and sand. Source: Iowa Environmental Mesonet;

https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWPSR&e=201603100849

FIGURE A-3
BLOWING DUST AND SAND EXPECTED IN SAN DIEGO DESERTS

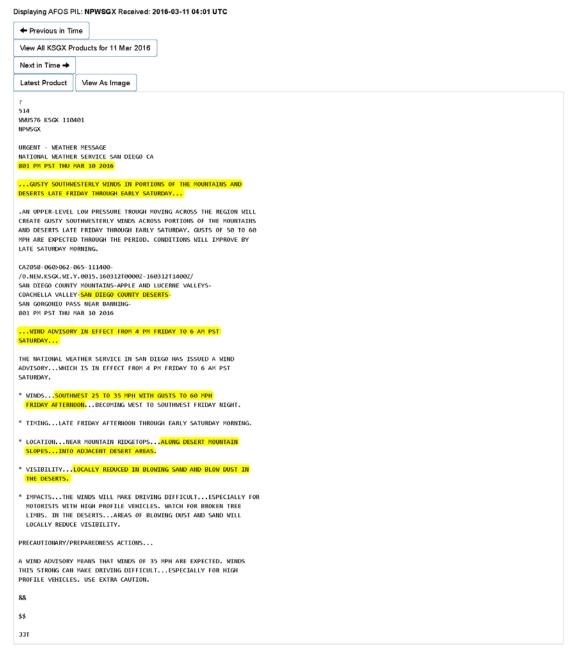


Gusty westerly winds will develop Friday afternoon with gusts over 40 mph in some locations across southeast California late in the afternoon and early evening. A Wind Advisory will be in effect from 2pm to 10pm Friday. Areas of restricted visibilities due to blowing dust are expected, especially along portions of the Interstate 8 and other dust prone travel corridors. Strong vehicle crosswinds may also impact travelers along area north/south roadways. Try and plan some extra travel time in to your day, be alert while traveling and remember the blowing dust/dust storm driving safety tip: Pull Aside, Stay Alive!

**Fig A-3:** A Weather Story issued by the NWS Phoenix office on March 10, 2016 and carried on the ICAPCD website advised the public that high winds and gusts would generate blowing dust on Friday, March 11, 2016

### FIGURE A-4 HIGH WINDS FOR SAN DIEGO DESERTS

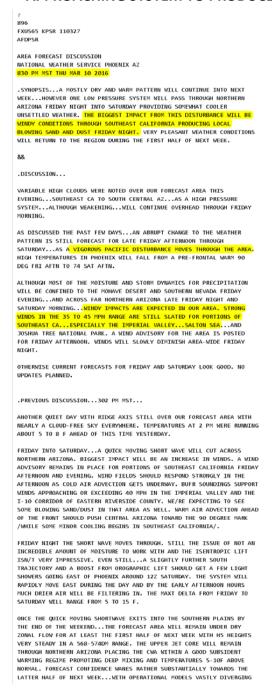
#### National Weather Service Raw Text Product



**Fig A-4:** Winds up to 35 mph with gusts reaching 60 mph were forecasted for the desert mountain slopes. The winds were expected to suspend copious amounts of dust. This area was immediately upstream of Imperial County. Source: Iowa Environmental Mesonet;

https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWSGX&e=201603110401

### FIGURE A-5 APPROACHING SYSTEM TO PRODUCE WINDS AND BLOWING DUST & SAND

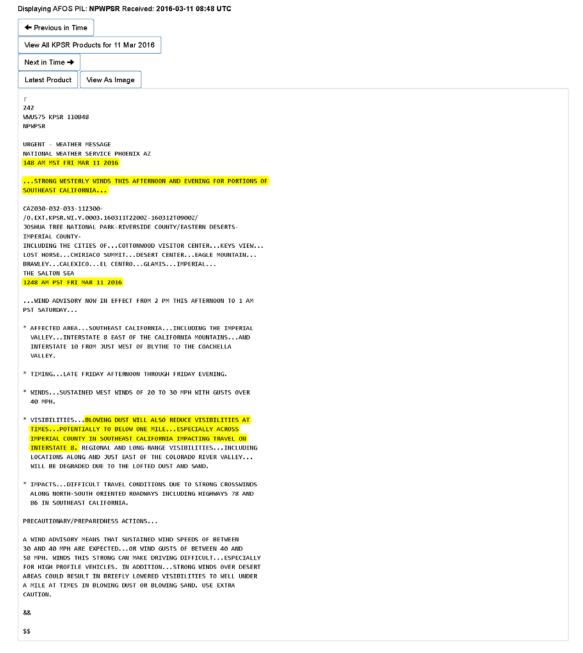


**Fig A-5:** An Area Forecast Discussion issued March 10, 2016 noted that the biggest impact from the approaching system would be gusty winds and blowing dust and sand across southeastern California during the night of March 11, 2016. Source: Iowa Environmental Mesonet;

https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201603110330

### FIGURE A-6 WIND ADVISORY REMAINS IN EFFECT FOR IMPERIAL COUNTY

National Weather Service Raw Text Product



**Fig A-6:** At 1:48 a.m. MST on March 11, 2016 the NWS Phoenix office issued a Wind Advisory for Imperial County and neighboring areas in anticipation of the vigorous weather system. Winds of 30 mph gusting to 40 mph were forecasted, along with blowing dust and sand. Source: Iowa Environmental Mesonet;

https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWPSR&e=201603110848

### FIGURE A-7 AREA FORECAST DISCUSSION – BLOWING SAND & DUST FOR IMPERIAL COUNTY

```
102
FXUS65 KPSR 110932
AFDPSR
AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE PHOENIX AZ
230 AM MST FRI MAR 11 2016
A MOSTLY DRY AND WARM PATTERN WILL CONTINUE INTO NEXT WEEK...HOWEVER
ONE LOW PRESSURE SYSTEM WILL PASS THROUGH NORTHERN ARIZONA FRIDAY
NIGHT INTO SATURDAY PROVIDING SOMEWHAT COOLER UNSETTLED WEATHER. THE
BIGGEST IMPACT FROM THIS DISTURBANCE WILL BE WINDY CONDITIONS ACROS
SOUTHEAST CALTEORNIA PRODUCTING LOCAL REOVING SAND AND DUST ERIDAY
NIGHT. VERY PLEASANT WEATHER CONDITIONS WILL RETURN TO THE REGION
DURING THE FIRST HALF OF NEXT WEEK.
.DTSCUSSTON...
A COMPACT AND WELL DEFINED PV ANOMALY NEAR 32N 133W WAS RAPIDLY
MOVING TOWARDS THE CHTRL/SRN CALIFORNIA COAST THIS MORNING IN
CONJUNCTION WITH A ROBUST 140KT JET STREAK, DOWNSTREAM THROUGH THE
SWRN CONUS...SHORTWAVE RIDGING WILL TEMPORARILY HOLD THROUGH THIS
AFTERNOON WITH OOZ HEIGHTS AND TEMPERATURES ALOFT SAMPLED NEAR THE
90TH PERCENTILE. WHILE THIN CIRRUS WILL GENERALLY INCREASE AS
HEIGHTS BEGIN TO FALL THROUGH SRN CALIFORNIA...EFFICIENTLY DEEP
MECHANICAL MIXING AND THE UNSEASONABLY WARM ATMOSPHERIC COLUMN WILL
PROVIDE ANOTHER DAY OF MUCH WARMER THAN NORMAL TEMPERATURES.
BEST PERFORMING GLOBAL MODELS AND CORRESPONDING HIGH RESOLUTION
OUTPUT REMAINS QUITE CONSISTENT IN PROPAGATING THE MAIN VORTICITY
CENTER AND COLD CORE FROM SRN CALTEORNIA THROUGH NORTHERN ARTZONA
AND NEW MEXICO FRIDAY NIGHT AND SATURDAY. UNFORTUNATELY DESPITE A
RATHER STEEP LOW LEVEL FRONT AND ATTENDANT FRONTOGENTICAL
FORCING...DEEPER DYNAMICAL ASCENT AND BETTER QUALITY MOISTURE
PROFILES REMAIN WELL NORTH OF THE FORECAST AREA. ASIDE FROM DECAYING
SHOWERS SPILLING OVER THE COASTAL CALIFORNIA MOUNTAINS...THE ONLY
LEGITIMATE HOPE FOR PRECIPITATION WILL BE THROUGH SRN GILA COUNTY
WHERE THE FRONTAL BOUNDARY AND OROGRAPHIC INFLUENCE MAY BE CAPABLE
OF SQUEEZING OUT A FEW VERY LIGHT SHOWERS (EMPHASIS ON VERY LIGHT).
DEVELOPING IMMEDIATELY ALONG AND BEHIND THE FRONTAL BOUNDARY THROU
SOUTHEAST CALIFORNIA IN A REGION OF DEEPENING CAA AND TIGHTENING
PRESSURE GRADIENT LATER TODAY, MODEL FORECAST SOUNDING DATA HAS
WAVERED VERY LITTLE IN RECENT ITERATIONS...STILL SUGGESTING STRONG
DOWNMARD POST FRONTAL MOMENTUM TRANSFER ACTING AS A TRAPPED DENSITY CURRENT IN THE LEE OF THE SAN DIEGO AND RIVERSIDE COUNTY HIGHER
TERRAIN. A WELL MIXED BOUNDARY LAYER WILL BE MAINTAINED INTO THE
EVENING HOURS TAPPING A 40+KT LLJ STREAMING TOWARDS THE SFC FROM A
2500FT LEVEL. MOST RECENT MODEL OUTPUT NOW SUGGESTS ONSET OF THIS
PHENOMENA POSSIBLY DELAYED A BIT...BUT ALSO PUSHED LATER INTO THE
EVENING AND HAVE CORRESPONDINGLY EXTENDED THE ADVISORY TIMING BACK A
FEW HOURS.
THIS SHORTWAVE WILL QUICKLY EXIT INTO THE SOUTHERN PLAINS BY SUNDAY
MORNING LEAVING THE FORECAST AREA UNDER DRY ZONAL FLOW FOR AT LEAST
THE FIRST HALF OF NEXT MEEK. HS HEIGHTS WILL REMAIN VERY STEADY IN A 570-576DM RANGE WITH BOUNDARY LAYER THERMAL PROFILES GRADUALLY
WARMING. THE UPPER JET CORE WILL REMAIN SITUATED ACROSS THE
GREAT BASIN PLACING THE CWA WITHIN A GOOD SUBSIDENT WARMING REGIME
PROMOTING DEEP MIXING AND TEMPERATURES 5-10F ABOVE NORMAL. MODE
SPREAD HAS BEEN MARROWING IN THE PAST COUPLE RUNS...AND HAVE
GENERALLY PUSHED FORECAST TEMPERATURES TOWARDS THE 50TH-75TH
PERCENTILE OF THE MODEL SPECTRUM.
LATEST MEDIUM RANGE OPERATIONAL MODELS ARE DISPLAYING LESS SPREAD
FOR LATER IN THE WEEK PLACING PRIMARY NEGATIVE HEIGHT ANOMALIES OVER
THE NORTHERN PLAINS/UPPER MIDWEST/GREAT LAKES WITH UPSTREAM HIGH
AMPLITUDE RIDGING ALONG THE NORTHERN AMERICAN WEST COAST.
HOWEVER...NAEFS ENSEMBLE MEMBERS STILL EXHIBIT NOTABLE SPREAD WITH
SEVERAL MEMBERS STILL RETROGRADING ENERGY TOWARDS THE SOUTHWEST IN
THE FORM OF AN OMEGA TYPE BLOCKING PATTERN. GIVEN THE TREND IN OPERATIONAL MEMBERS AND FEMER ENSEMBLES SUPPORTING LOWER HEIGHTS
OVER THE FORECAST AREA...WITH MODERATE CONFIDENCE HAVE TRENDED THE
FORECAST TOWARDS THE WARMER AND DRIER OUTCOME FOR THE LATTER HALF OF
THE WEEK.
```

**Fig A-7:** An Area Forecast Discussion forecasted that blowing dust and san would result from the weather system moving through southeastern California. Source: Iowa Environmental Mesonet;

https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201603110930

### FIGURE A-8 BLOWING DUST AND SAND EXPECTED IN SAN DIEGO DESERTS – PAGE 1

```
718
WWUS76 KSGX 111222
NPWSGX
URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE SAN DIEGO CA
422 AM PST FRI MAR 11 2016
...GUSTY WINDS ACROSS MUCH OF SOCAL FROM LATE THIS AFTERNOON
.A FAST-MOVING COLD FROM AND VIGOROUS UPPER-LEVEL LOW PRESSURE
SYSTEM MILL BRING GUSTY SOUTHWEST TO MESTERLY MINDS ACROSS PORTIONS OF THE REGION. GUSTS OF 30 TO 40 MPH MILL BE LIKELY FOR
PORTIONS OF THE COAST AND VALLEYS. GUSTS OF 50 TO 60 MPH WILL BE LIKELY FOR PORTIONS OF THE COAST AND VALLEYS. GUSTS OF 50 TO 60 MPH WILL BE LIKELY FOR THE MOUNTAINS AND DESERT SLOPES. CONDITIONS WILL
IMPROVE BY LATE SATURDAY MORNING.
CA7043-048-050-057-552-554-112200-
/0.EXB.KSGX.WI.Y.0015.160312T0000Z-160312T1200Z/
SAN DIEGO COUNTY COASTAL AREAS-
SAN BERNARDINO AND RIVERSIDE COUNTY VALLEYS-THE INLAND EMPIRE-
SAN DIEGO COUNTY VALLEYS-SANTA ANA MOUNTAINS AND FOOTHILLS-
ORANGE COUNTY COASTAL AREAS-ORANGE COUNTY INLAND AREAS-
422 AM PST FRI MAR 11 2016
...WIND ADVISORY IN EFFECT FROM 4 PM THIS AFTERNOON TO 4 AM PST
THE NATIONAL WEATHER SERVICE IN SAN DIEGO HAS ISSUED A WIND
ADVISORY...WHICH IS IN EFFECT FROM 4 PM THIS AFTERNOON TO 4 AM
PST SATURDAY.
* WINDS...SOUTHWEST 15 TO 25 MPH WITH GUSTS TO 35 MPH THIS
  AFTERNOON...BECOMING WEST THIS EVENING WITH GUSTS UP TO 40 MPH.
* TIMING...STRONGEST WINDS WILL BE LATE AFTERNOON THROUGH MID
  EVENING...ROUGHLY BETWEEN 5 PM TO 10 PM. WINDS DIMINISHING SATURDAY
* LOCATION...STRONGEST WIND GUSTS AT THE IMMEDIATE COAST AND ALONG
  THE COASTAL SLOPES AND FOOTHILLS.
* IMPACTS...THE WINDS WILL MAKE DRIVING DIFFICULT...ESPECIALLY FOR
  MOTORISTS WITH HIGH PROFILE VEHICLES, WATCH FOR DOWNED BRANCHES
PRECAUTIONARY/PREPAREDNESS ACTIONS...
A WIND ADVISORY MEANS THAT WINDS OF 35 MPH ARE EXPECTED. WINDS
THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH
PROFILE VEHICLES. USE EXTRA CAUTION.
$$
CAZ058-060>062-065-112200-
/0.CON.KSGX.WI.Y.0015.160312T0000Z-160312T1400Z/
SAN DIEGO COUNTY MOUNTAINS-APPLE AND LUCERNE VALLEYS-
COACHELLA VALLEY-SAN DIEGO COUNTY DESERTS-
SAN GORGONIO PASS NEAR BANNING-
422 AM PST FRI MAR 11 2016
 ..WIND ADVISORY REMAINS IN EFFECT FROM 4 PM THIS AFTERNOON TO
6 AM PST SATURDAY...
* WINDS...SOUTHWEST 25 TO 35 MPH WITH GUSTS UP TO 60 MPH THIS
 AFTERNOON...BECOMING WESTERLY OVERNIGHT.
* TIMING...STRONGEST WINDS LATE THIS AFTERNOON THROUGH MID
  EVENING. WINDS DIMINISHING SATURDAY MORNING.
* LOCATION...STRONGEST WINDS NEAR MOUNTAIN RIDGETOPS...ALONG
  DESERT MOUNTAIN SLOPES...INTO ADJACENT DESERT AREAS.
* VISIBILITY...BLOWING DUST AND SAND IN THE DESERTS COULD BRIEFLY
  REDUCE VISIBILITY TO BELOW ONE MILE.
```

### FIGURE A-8 BLOWING DUST AND SAND EXPECTED IN SAN DIEGO DESERTS – PAGE 2

**Fig A-8:** This Urgent Weather Message issued at 4:22 a.m. Friday, March 11, 2016 reemphasized the that gusts up to 60 mph along desert sloes could drastically limit visibility due to blowing dust and sand. Source: lowa Environmental Mesonet; <a href="https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWSGX&e=201603111222">https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWSGX&e=201603111222</a>

### FIGURE A-9 HIGH WINDS FOR SAN DIEGO DESERTS – PAGE 1

```
$$
CA7065-120715-
SAN GORGONIO PASS NEAR BANNING
814 AM PST FRI MAR 11 2016
...WIND ADVISORY IN EFFECT FROM 4 PM THIS AFTERNOON TO 6 AM PST
.TODAY...PARTLY CLOUDY. HIGHS 75 TO 80. AREAS OF WINDS WEST 15 TO
25 MPH WITH GUSTS TO 35 MPH...BECOMING 25 TO 30 MPH WITH GUSTS TO
55 MPH IN THE AFTERNOON.
.TONIGHT...PARTLY CLOUDY WITH A CHANCE OF RAIN. COOLER. LOWS
46 TO 54. AREAS OF WINDS WEST 30 TO 40 MPH WITH GUSTS TO 60 MPH.
CHANCE OF MEASURABLE PRECIPITATION 50 PERCENT.
.SATURDAY...PARTLY CLOUDY IN THE MORNING...BECOMING MOSTLY SUNNY.
AREAS OF BLOWING SAND AND BLOWING DUST IN THE MORNING. LOCAL
VISIBILITY ONE QUARTER MILE OR LESS AT TIMES IN THE MORNING
HIGHS 69 TO 74. AREAS OF WINDS WEST 25 TO 35 MPH...BECOMING 15 TO
25 MPH IN THE AFTERNOON. GUSTS TO 40 MPH.
.SATURDAY NIGHT...MOSTLY CLEAR. LOWS 46 TO 56. AREAS OF MINDS WEST 20 TO 30 MPH. GUSTS TO 50 MPH...BECOMING 45 MPH OVERNIGHT.
.SUNDAY...PARTLY CLOUDY. HIGHS 71 TO 76. AREAS OF WINDS WEST 15 TO 25 MPH WITH GUSTS TO 35 MPH.
.SUNDAY NIGHT...PARTLY CLOUDY. SLIGHT CHANCE OF SHOWERS
OVERNIGHT, WINDY, LOWS 51 TO 59
.MONDAY...PARTLY CLOUDY WITH A SLIGHT CHANCE OF SHOWERS. VERY
WINDY. HIGHS 73 TO 78.
.MONDAY NIGHT...PARTLY CLOUDY. SLIGHT CHANCE OF SHOWERS IN THE
EVENING. LOWS 50 TO 59.
.TUESDAY...PARTLY CLOUDY IN THE MORNING...BECOMING MOSTLY SUNNY.
HIGHS 78 TO 83.
.TUESDAY NIGHT...MOSTLY CLEAR. LOWS 56 TO 62.
.WEDNESDAY...MOSTLY SUNNY. HIGHS 80 TO 85.
.WEDNESDAY NIGHT...MOSTLY CLEAR. LOWS 56 TO 62.
.THURSDAY...MOSTLY SUNNY. HIGHS 81 TO 86.
CAZ061-120715-
COACHELLA VALLEY
814 AM PST FRI MAR 11 2016
...WIND ADVISORY IN EFFECT FROM 4 PM THIS AFTERNOON TO 6 AM PST
SATURDAY..
.TODAY...PARTLY CLOUDY. HIGHS AROUND 82. LIGHT WINDS BECOMING
WEST 20 TO 30 MPH WITH GUSTS TO 40 MPH IN THE AFTERNOON.
.TONIGHT...PARTLY CLOUDY. AREAS OF BLOWING SAND AND BLOWING DUST
IN THE EVENING. CHANCE OF RAIN IN THE EVENING...THEN SLIGHT
CHANCE OF RAIN OVERNIGHT. COOLER. LOWS 46 TO 54. AREAS OF WINDS
NORTHWEST 15 TO 25 MPH WITH GUSTS TO 40 MPH. CHANCE OF MEASURABLE
PRECIPITATION 50 PERCENT.
SATURDAY...PARTLY CLOUDY IN THE MORNING...BECOMING MOSTLY SUNNY.
HIGHS AROUND 77. AREAS OF WINDS NORTH 15 TO 20 MPH WITH GUSTS TO
30 MPH IN THE MORNING BECOMING LIGHT.
.SATURDAY NIGHT...MOSTLY CLEAR. LOWS 45 TO 55. AREAS OF WINDS
NORTHWEST 15 TO 20 MPH WITH GUSTS TO 30 MPH.
.SUNDAY...MOSTLY SUNNY. HIGHS AROUND 79. AREAS OF WINDS NORTHWEST 15 MPH WITH GUSTS TO 25 MPH IN THE MORNING BECOMING LIGHT.
.SUNDAY NIGHT...MOSTLY CLEAR IN THE EVENING...THEN PARTLY CLOUDY
WITH A SLIGHT CHANCE OF SHOWERS OVERNIGHT, BREEZY, LOWS 49 TO 58.
.MONDAY...PARTLY CLOUDY IN THE MORNING...BECOMING MOSTLY SUNNY.
SLIGHT CHANCE OF SHOWERS. WINDY. HIGHS AROUND 81.
.MONDAY NIGHT...MOSTLY CLEAR WITH A SLIGHT CHANCE OF SHOWERS IN
THE EVENING...THEN PARTLY CLOUDY OVERNIGHT. LOWS 50 TO 58.
.TUESDAY...PARTLY CLOUDY IN THE MORNING...BECOMING MOSTLY SUNNY.
HIGHS AROUND 84.
.TUESDAY NIGHT...MOSTLY CLEAR. LOWS 50 TO 60.
.WEDNESDAY...MOSTLY SUNNY. HIGHS 84 TO 89.
.WEDNESDAY NIGHT...MOSTLY CLEAR. LOWS 50 TO 60.
.THURSDAY...MOSTLY SUNNY. HIGHS 85 TO 90.
CAZ062-120715-
SAN DIEGO COUNTY DESERTS
814 AM PST FRI MAR 11 2016
...WIND ADVISORY IN EFFECT FROM 4 PM THIS AFTERNOON TO 6 AM PST
```

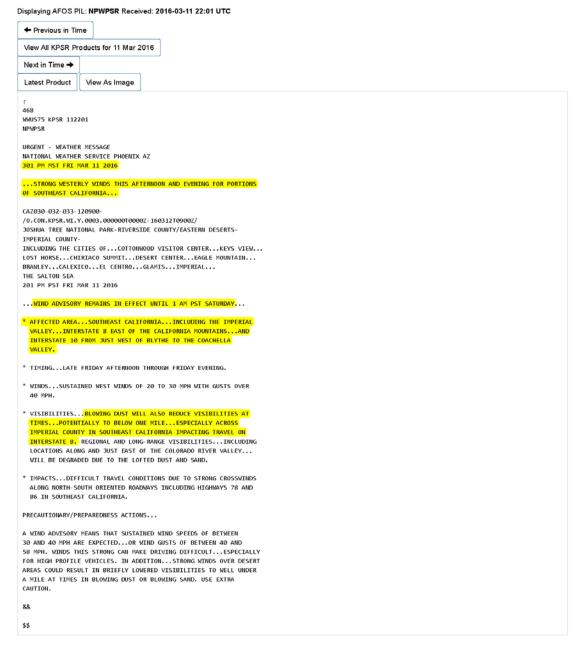
### FIGURE A-9 HIGH WINDS FOR SAN DIEGO DESERTS – PAGE 2

**Fig A-9:** High winds were expected for the San Diego deserts along with blowing dust and sand. This area was immediately upstream of Imperial County. Source: Iowa Environmental Mesonet;

https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=ZFPSGX&e=201603111614

### FIGURE A-10 WIND ADVISORY EXTENDED FOR IMPERIAL COUNTY

National Weather Service Raw Text Product



**Fig A-10:** The weather system was so strong that at 3:01 p.m. MST the NWS extended the Wind Advisory for southeastern California through 1 p.m. PST Saturday, March 12, 2016. Source: lowa Environmental Mesonet;

https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWPSR&e=201603112201

### FIGURE A-11 HIGH WINDS PUMMELING SOUTHEAST CALIFORNIA AND IMPERIAL COUNTY

068 FXUS65 KPSR 120307 AREA FORECAST DISCUSSION NATIONAL WEATHER SERVICE PHOENIX AZ 810 PM MST FRI MAR 11 2016 MOSTLY DRY AND WARM CONDITIONS WILL CONTINUE INTO NEXT WEEK...HOWEVER ONE LOW PRESSURE SYSTEM WILL PASS THROUGH NORTHERN ARIZONA TONIGHT AND SATURDAY PROVIDING SOMEWHAT COOLER UNSETTLED WEATHER. THE BIGGEST IMPACT FROM THIS DISTURBANCE WILL BE WINDY CONDITIONS ACROSS SOUTHEAST CALIFORNIA PRODUCING LOCAL BLOWING SAND AND DUST TONIGHT. VERY PLEASANT WEATHER CONDITIONS WILL RETURN TO THE REGION DURING THE FIRST HALF OF NEXT WEEK. .DISCUSSION...A FAST MOVING PACIFIC COLD FRONT MOVED ASHORE LATE FRIDAY AFRICTION AND EVENING. THE MOST INTERISE PART OF THIS SYSTEM FOR PRECIP/TSTM MAS ALONG THE COAST FROM SAITA BARBARA TO SAN DIEGO.

LATE IN THE DAY...SHIFTING TO BETWEEN LAS VEGAS AND KINGMAN BY 11 PM...THEN ACROSS THE GRAND CANYON AND FLAGSTAFF JUST BEFORE SUNRISE SAT. ACROSS OUR FORECAST AREA...WHICH IS MOST OF THE SOUTHEAST CA MOUNTAINS AND DESERTS... THE AREA WAS PUMMELED BY STRONG MIND GUSTS.
SAMPLING OF THE AREA JUST BEFORE 7 PM MST SHOWED THE STRONGEST GUSTS
OCCURRED IN THE IMPERIAL VALLEY...THE SALTON SEA...AND OVER THE MOUNTAINS OF JOSHUA TREE NATIONAL PARK...AREAS WHERE A MIND ADVISORY IS IN EFFECT UNITL 1 AM MST. PEAK GUSTS UP TO 7 PM MST MERE AT MOUNTAIN SPRINGS (ALONG I-8 M OF EL CENTRO) 47 MPH...THE IMPERIAL AIRPORT 45 MPH...AND JOSHUA TREE NATIONAL PARK 44 MPH. WEATHER RADAR 8 PM SHOWED PERHAPS A FEW SPRINKLES IN JOSHUA TREE NATIONAL PARK AREA AS CLOUDINESS SPILLS OVER THE COASTAL RANGE.. AND DIRECTLY DOWNSTREAM FROM THE BANNING PASS. NOTHING MORE THAN A FEW SPRINKLES ARE EXPECTED OVERNIGHT. AS THE COLD FRONT MOVES EAST...EXPECTING TO PASS THROUGH PHOENIX BETMEEN 1 AND 3 AM...IT WILL REMAIN BREEZY FROM THE WEST ACROSS MOST AREAS OVERNIGHT. LIGHTER WIND IS EXPECTED BY SATURDAY AFTERNOON IN THE WAKE OF THE PACIFIC SYSTEM WHICH IS FORECAST OVER FAR NORTHWEST NEW MEXICO BY 11 AM SATURDAY. OTHERWISE NO WEATHER SURPRISES EXPECTED TONIGHT AND SATURDAY. THE CURRENT DRY AND COOLER FORECASTS FOR THE WEEKEND LOOK OK. NO SHORT TERM UPDATES NEEDED. .PREVIOUS DISCUSSION...227 PM MST... CLOUD COVER HAS FILLED IN ACROSS THE REGION DURING THE DAY...FIRST INTRUDING AT THE HIGHER LEVELS AND SLOWLY FILLING DOWN INTO THE LOWER ATMO LAYERS. CEILINGS (BKN TO OVC CONDITIONS) NOT OUITE OBSERVED YET BELOW 20KFT AROUND THE AREA. CLOUD COVERAGE IS BECOMING THICK AND LOW ENOUGH TO BE SAMPLED BY RADARS AROUND AZ...HOWEVER NO ACTUAL SHOWER ECHOES HAVE DEVELOPED OVER THE STATE. RAIN BANDS ARE STREAMING THROUGH THE L.A. BASIN WITH MARINE-LAYER ENHANCED STRATUS BANKING UP OVER THE PENINSULAR RANGES WHERE THE BEST CHANCES FOR RAINFALL RESIDE TODAY. MAIN UPPER PV ANOMALY/LOW CIRC IS GENERALLY WEST OF THE BAY AREA AND WILL QUICKLY DROP INTO CENTRAL/SOCAL TONIGHT AND MOVE ACROSS NORTHERN AZ SATURDAY. BEFORE THE CIRC CENTER AND ASSOCIATED COLD FRONT MOVE IN...STRONG PRE-FRONTAL AND GRADIENT LL JET WINDS WILL DEVELOP INTO THE AREA. A WIND ADVISORY IS OUT FOR THE SOUTHEAST CA DESERTS...WHERE GUSTS OF AT LEAST 40 MPH ARE POSSIBLE. WINDS WON'T BE QUITE AS STRONG ACROSS SOUTH-CENTRAL AZ WITH GUSTS OF 20-25 MPH. TEMPERATURE FORECAST FOR TODAY WAS A BIT MORE CHALLENGING THAN EARLIER THOUGHT...WITH THE CLOUD SHIELD INHIBITING SOLAR HEATING BUT MUCH WARMER BL/ML TEMPERATURES COMPARED TO THIS TIME YESTERDAY...PER ACARS/MDCRS SOUNDINGS. NUDGED HIGH TEMPS DOWN TWO TO THREE DEGREES FROM THE EARLIER FORECAST AS A RESULT. 850-500MB THETA-E PACKING/FRONTAL ANALYSIS TRACKS THE COLD FRONT INTO SOUTHEAST CA AROUND 12/04Z...AT THE CO RIVER VALLEY APPROX 12/06Z AND INTO SOUTH-CENTRAL AZ AROUND 12/09Z...PERSISTING WESTERLY WIND AND CONTINUED MOMENTUM TRANSFER OVERNIGHT. UNFORTUNATELY DESPITE THE STEEP LOW LEVEL FRONT AND FORCING...DEEPER DYNAMICAL

**Fig A-11:** An Area Forecast Discussion noted that a wide region was being pummeled by high winds and that Imperial County was experiencing the strongest winds. Source: Iowa Environmental Mesonet;

https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=AFDPSR&e=201603120310

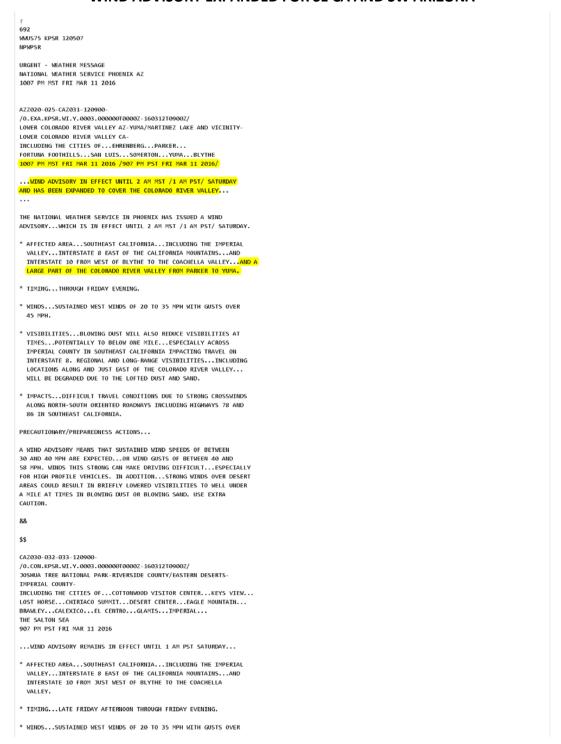
### FIGURE A-12 ZONE FORECAST FOR IMPERIAL COUNTY INCLUDED BLOWING DUST & SAND – PAGE 1

```
10 TO 20 MPH. GUSTS UP TO 30 MPH.
.SATURDAY...PARTLY SUNNY IN THE MORNING...THEN BECOMING SUNNY. MUCH
COOLER. HIGHS 68 TO 73. WEST WIND 5 TO 15 MPH.
SATURDAY NIGHT...CLEAR AND COLDER, LOWS 39 TO 49. SOUTHWEST WIND
10 TO 15 MPH IN THE EVENING BECOMING SOUTH 5 TO 10 MPH AFTER
MIDNIGHT.
.SUNDAY...SUNNY AND WARMER. HIGHS 73 TO 78. SOUTH WIND AROUND 5 MPH
IN THE MORNING BECOMING SOUTHWEST 5 TO 10 MPH IN THE AFTERNOON
.SUNDAY NIGHT...CLEAR. LOWS 42 TO 52. SOUTHWEST WIND 5 TO 10 MPH.
.MONDAY...SUNNY. HIGHS 75 TO 80.
MONDAY NIGHT...CLEAR. LOWS IN THE LOWER 40S TO LOWER 50S.
.TUESDAY...SUNNY. HIGHS IN THE UPPER 70S TO LOWER 80S.
.TUESDAY NIGHT...CLEAR. LOWS IN THE MID 40S TO MID 50S.
.WEDNESDAY...SUNNY. HIGHS IN THE LOWER TO MID 80S.
.WEDNESDAY NIGHT...CLEAR. LOWS IN THE MID 40S TO MID 50S.
.THURSDAY...SUNNY. HIGHS IN THE LOWER TO MID 80S.
.THURSDAY NIGHT...CLEAR. LOWS IN THE MID 40S TO MID 50S.
.FRIDAY...SUNNY. HIGHS IN THE LOWER TO MID 80S.
38
CAZ030-121100-
JOSHUA TREE NATIONAL PARK-
INCLUDING THE CITIES OF...COTTONWOOD VISITOR CENTER...KEYS VIEW...
LOST HORSE
...WIND ADVISORY IN EFFECT UNTIL 1 AM PST SATURDAY...
.TONIGHT...PARTLY CLOUDY IN THE EVENING...THEN BECOMING MOSTLY CLEAR.
A SLIGHT CHANCE OF SHOWERS. WINDY AND COOLER. LOWS 42 TO 52. WEST
WIND 20 TO 35 MPH. GUSTS UP TO 50 MPH. CHANCE OF MEASURABLE RAIN
.SATURDAY...SUNNY...BREEZY AND COOLER. HIGHS 64 TO 74. NORTHWEST WIND
10 TO 20 MPH. GUSTS UP TO 30 MPH IN THE MORNING.
.SATURDAY NIGHT...CLEAR. LOWS 41 TO 51. WEST WIND 5 TO 15 MPH.
.SUNDAY...MOSTLY SUNNY. HIGHS 67 TO 77. WEST WIND 5 TO 15 MPH.
SUNDAY NIGHT...MOSTLY CLEAR IN THE EVENING...THEN BECOMING PARTLY
CLOUDY. LOWS 45 TO 55. WEST WIND 10 TO 20 MPH.
.MONDAY...PARTLY SUNNY. HIGHS 70 TO 80.
.MONDAY NIGHT...MOSTLY CLEAR. LOWS IN THE MID 40S TO MID 50S.
.TUESDAY...MOSTLY SUNNY. HIGHS 70 TO 80.
.TUESDAY NIGHT...CLEAR, LOWS IN THE UPPER 40S TO UPPER 50S.
.WEDNESDAY...SUNNY. HIGHS IN THE LOWER 70S TO LOWER 80S
.WEDNESDAY NIGHT...CLEAR. LOWS IN THE UPPER 40S TO UPPER 50S.
.THURSDAY...SUNNY. HIGHS IN THE LOWER 70S TO LOWER 80S.
.THURSDAY NIGHT...CLEAR. LOWS IN THE UPPER 40S TO UPPER 50S.
.FRIDAY...SUNNY. HIGHS IN THE LOWER 70S TO LOWER 80S.
$$
CAZ032-121100-
RIVERSIDE COUNTY/EASTERN DESERTS-
INCLUDING THE CITIES OF...CHIRIACO SUMMIT...DESERT CENTER...
EAGLE MOUNTAIN
907 PM PST FRI MAR 11 2016
...WIND ADVISORY IN EFFECT UNTIL 1 AM PST SATURDAY...
.TONIGHT...MOSTLY CLEAR AND WINDY. PATCHY BLOWING SAND AND BLOWING
DUST IN THE EVENING. LOWS 45 TO 55. WEST WIND 20 TO 35 MPH. GUSTS UP
TO 50 MPH.
SATURDAY...SUNNY AND COOLER, HTGHS 73 TO 78, WEST WIND 5 TO 15 MPH.
.SATURDAY NIGHT...CLEAR. LOWS 42 TO 52. WEST WIND 5 TO 15 MPH.
.SUNDAY...SUNNY. HIGHS 75 TO 80. SOUTHWEST WIND 5 TO 10 MPH.
.SUNDAY NIGHT...MOSTLY CLEAR. LOWS 46 TO 56. WEST WIND 5 TO 15 MPH.
MONDAY...MOSTLY SUNNY. HIGHS IN THE UPPER 70S TO LOWER 80S.
.MONDAY NIGHT...MOSTLY CLEAR, LOWS IN THE UPPER 40S TO UPPER 50S. .TUESDAY...SUNNY. HIGHS IN THE LOWER TO MID 80S.
.TUESDAY NIGHT...CLEAR. LOWS IN THE UPPER 40S TO UPPER 50S.
.MEDNESDAY...SUNNY. HIGHS IN THE LOWER TO MID 80S.
.MEDNESDAY NIGHT...CLEAR. LOWS IN THE UPPER 40S TO UPPER 50S.
.THURSDAY...SUNNY. HIGHS IN THE MID TO UPPER 80S.
.THURSDAY NIGHT...CLEAR. LOWS IN THE UPPER 40S TO UPPER 50S.
.FRIDAY...SUNNY. HIGHS IN THE MID TO UPPER 80S.
CAZ033-121100-
INCLUDING THE CITIES OF...BRAWLEY...CALEXICO...EL CENTRO...GLAMIS...
```

### FIGURE A-12 ZONE FORECAST FOR IMPERIAL COUNTY INCLUDED BLOWING DUST & SAND - PAGE 2

**Fig A-12:** A Zone Forecast issued as late as 9:07 p.m. MST on March 12, 2016 for Imperial County warned of blowing dust and sand. Source: Iowa Environmental Mesonet; https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=ZFPPSR&e=201603120507

### FIGURE A-13 WIND ADVISORY EXPANDED FOR SE CA AND SW ARIZONA



**Fig A-13:** At 10:07 p.m. MST on March 11, 2016 the NWS expanded the Wind Advisory to include a wider area of southeastern California and portions of southwestern Arizona. Source: Iowa Environmental Mesonet;

https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWPSR&e=201603120507

### FIGURE A-14 BLOWING DUST/SAND IDENTIFIED OVER SOUTHEASTERN CALIFORNIA

#### Friday, March 11, 2016

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 0200Z March 12 2016

#### DUST

California:

An area of blowing dust/sand was observed near the Salton Sea in southern California. This area of blowing sand was seen moving eastward from Imperial county California into southwestern Arizona.

-Cronin

THIS TEXT PRODUCT IS PRIMARILY INTENDED TO DESCRIBE SIGNIFICANT AREAS OF SMOKE ASSOCIATED WITH ACTIVE FIRES AND SMOKE WHICH HAS BECOME DETACHED FROM THE FIRES AND DRIFTED SOME DISTANCE AWAY FROM THE SOURCE FIRE..TYPICALLY OVER THE COURSE OF ONE OR MORE DAYS. AREAS OF BLOWING DUST ARE ALSO DESCRIBED. USERS ARE ENCOURAGED TO VIEW A GRAPHIC DEPICTION OF THESE AND OTHER PLUMES WHICH ARE LESS EXTENSIVE AND STILL ATTACHED TO THE SOURCE FIRE IN VARIOUS GRAPHIC FORMATS ON OUR WEB SITE:

JPEG: http://www.ospo.noaa.gov/Products/land/hms.html
GIS: http://www.firedetect.noaa.gov/viewer.htm
KML: http://www.ssd.noaa.gov/PS/FIRE/kml.html
ANY QUESTIONS OR COMMENTS REGARDING THIS PRODUCT SHOULD BE SENT TO
SSDFireTeam@noaa.gov

#### Unless otherwise indicated:

- Areas of smoke are analyzed using GOES-EAST and GOES-WEST Visible satellite imagery.
- Only a general description of areas of smoke or significant smoke plumes will be analyzed.
- A quantitative assessment of the density/amount of particulate or the vertical distribution is not included.
- Widespread cloudiness may prevent the detection of smoke even from significant fires.

**Fig A-14:** NOAA'S Smoke Text Product identified blowing dust or sand in the vicinity of the Salton Sea on March 11, 2016. The notice was effective through 1800 PST. This was during the period that Brawley and Westmorland were recording significant levels of PM10

### FIGURE A-15 AIR QUALITY ALERT – UNHEALTHY FOR SENSITIVE GROUPS

#### Imperial Valley Air Quality Alert

#### Westmorland - 570 Cook St

#### Saturday, March 12 - 1:00 AM

PM10 (24-hr average) AQI reached 113 - Unhealthy for Sensitive Groups

PM10 AQI 101-150 People with respiratory or heart disease, the elderly, and children are the groups most at risk, especially when they are physically active. There is an increased likelihood of respiratory symptoms in sensitive individuals, and aggravation of heart or lung disease and premature mortality in persons with cardiopulmonary disease and the elderly. U.S. EPA cautions that "people with heart or lung disease, older adults, and children should reduce prolonged or heavy exertion." 'Prolonged' generally means four or more hours with short rest periods. 'Heavy exertion' is that which would increase the resting breathing rate four fold or greater. You can reduce exposure to particulate material by: - Reducing the intensity and duration of your outdoor activities - Postponing outdoor activities to days when particulate levels are lower

#### Current Maximum AQI for Other Imperial Valley Cities

Brawley - 220 Main Street: Unhealthy for Sensitive Groups (PM10)

Calexico - Ethel Street: Moderate (PM2.5)

El Centro - 9th Street: Good (PM10)

Niland - English Road: Moderate (PM10)

**Fig A-15:** So much dust was stirred up by the high winds that the poor air quality carried into the following day, causing the ICAPCD to issue an air quality alert on its website at 1 a.m. on March 12, 2016, informing the public that air quality had entered the Unhealthy for Sensitive Groups range

#### FIGURE A-16 AIR QUALITY INDEX

Air Quality Index Levels of Health Concern	Numerical Value	Meaning
Good	0 to 50	Air quality is considered satisfactory, and air pollution poses little or no risk.
Moderate	51 to 100	Air quality is acceptable; however, for some pollutants there may be a moderate health concern for a very small number of people who are unusually sensitive to air pollution.
Unhealthy for Sensitive Groups	101 to 150	Members of sensitive groups may experience health effects. The general public is not likely to be affected.
Unhealthy	151 to 200	Everyone may begin to experience health effects; members of sensitive groups may experience more serious health effects.
Very Unhealthy	201 to 300	Health alert: everyone may experience more serious health effects.
Hazardous	301 to 500	Health warnings of emergency conditions. The entire population is more likely to be affected.

**Fig A-16:** The AQI is an index for reporting daily air quality. It tells you how clean or polluted your air is, and what associated health effects might be a concern for you. The AQI focuses on health effects you may experience within a few hours or days after breathing polluted air. EPA calculates the AQI for five major air pollutants regulated by the Clean Air Act: ground-level ozone, particle pollution (also known as particulate matter), carbon monoxide, sulfur dioxide, and nitrogen dioxide. For each of these pollutants, EPA has established national air quality standards to protect public health. Ground-level ozone and airborne particles are the two pollutants that pose the greatest threat to human health in this country. Source:

https://airnow.gov/index.cfm?action=aqibasics.aqi

#### FIGURE A-17 NO BURN DAY DECLARED

Date: Frida		1, 2016 Observations at Imperi	al Airport (ASO	S) FAA/N	IWS		
	vveatrici	WINDS MILES PER	VISIBILITY				
TIME	TEMP °F	HOUR	MILES				
7 AM	57	W 5	10				
8 AM	65	W 5	10				
9 AM	77	W 3	10				
10 AM	82	VRBL 6	10				
11 AM	84	CALM	10				
NOON	87	ESE 6	10				
1 PM	89	VRBL 7	10				
2 PM	89	VRBL 5	10				
3 PM	90	E 8	10				
4 PM	90	E 6	10				
5 PM	87	E 5	10				
6 PM	85	CALM	10				
7 PM	77	CALM	10				
M	ax. Tempe	rature yesterday was	90 degrees				
Today's Mt.	Signal Visi	bility at 7:30 AM Clea	ar_NKX 12Z 50	0 MB He	ight		-
Forecasts			1Y7 12Z 50	0 MB He	ight _		-
High Too		79-84	Local F	orecast		Computer Forecas	st
	3.9%		(Issued 8	AM Loca	1)	(RUC 40KM 12Z	)
Est Time M	lvina Heial	nt reaches 3000 feet				11:00 am	
Forecast of			feet	8530	feet		
Forecast for	S 5-	10		S 5-10	mpi		
Forecast for	afternoon	surface winds	SW 20-3	0/G 40	mph		_ mpl
Forecast for		W 20-35					
Forecast 10	3-2	3-25					
omments/Com	plaints: A	ir Show naval					
210100000000000000000000000000000000000	dan kanana a						

**Fig A-17:** A copy of the Imperial County Air Pollution Control District official record of the conditions as they existed for a determination of a "No Burn" day on March 11, 2016. Source: ICAPCD Archives

### FIGURE A-18 IMPERIAL COUNTY AFFIDAVIT OF 30 DAY PUBLIC NOTICE

### AFFIDAVIT OF PUBLICATION (2015.5 C.C.P.)

#### STATE OF CALIFORNIA

County of Imperial

I am a resident of the County aforesaid; I am over the age of eighteen years, and not a party to or interested in the above entitled matter. I am the principal clerk\* of the printer of the

Imperial Valley Press

a newspaper of general circulation, printed and published daily in the City of El Centro, County of Imperial and which newspaper has been adjudged a newspaper of genera circulation by the Superior Court of the County of Imperial, State of California, under the date of October 9, 1951, Case Number 26775; that the notice, of which the annexed is a printed copy, has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

01/10.

all in the year

2018

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

**SIGNATURE** 

Name of Account: I C AIR POLLUTION

CONTROL

Order Number: 11136200 Ad Number: 31356303

\* Printer, Foreman of the Printer, or Principal Clerk of the Printer

Date: 10 th day of January, 2018. at El Centro, California.

This space is for the County Clerk's Filling Stamp:

### NOTICE OF AVAILABILITY OF THE DEMONSTRATION OF THE OCCURRENCE OF 13 EXCEPTIONAL EVENTS (EE)

The Imperial County Air Poliution Control District (Air District) has prepared 13 Draft Exceptional Ever (EE) Demonstrations, which support the requested exclusion measured 24-hour concentrations at the Air District air monitoring sites. Listed below by date, site and concentration as measured by a Federa Reference Method monitor (FRM) or with a continuous Federal Equivalent Method monitor (FEM) represent the 13 Draft EE's.

2014 April 12 - 13 Niland Brawley	PEM FEM	167.5	Ng/m² Ng/m²	2016 hInrch 6 Brawley Westmorland	FEM FEM	237 220	ug/m²	April 22 Westmorland Drawley	FEM FEM	192 242	ug/m² ug/m²
April 25-26 Brawley Brawley	FEM PEM	185.4 313.3	ne/m²	Morch 11 Ormvicy Westmorland	FEM FEM	178 179	eg im' eg/m'	April 24-25 Brawley Brawley Westmerland	FRM FEM FEM	186 218 177	ug/m' ug/m' ug/m'
May 5-6 Brawley Brawley Westmorland Brawley	FRM FRM FRM FISM	269 225.5 375 439.3	ug/m' ug/m' ug/m' ug/m'	Alerch 28 Brawley El Contro Niland Westmerland	FIEM MEET MEET MEET	334 285 334 465	wg/m² wg/m² wg/m²	Brawley Calexiso Niland Westmorland	FEM FEM FEM	283 173 225 244	nigun, nigun, nigun,
May 11 Niland	PEM	172,8	ng/mi	April 14 Riland Westmerland Browley	FEM FEM	172.8 163 228	agini' agini'	May 5 Brawley Niland Westmorland	FEM FEM	163 172 227	ugání ugání ugání
June 30 Niland	FEM	183.7	ng/m³	Diamey 1	hush	(2/4)	Limite:	May 15 Nilend	TEM	216	ug/m²

Named FEM 18.7 symb.

The public and all interested parties are encouraged to review and comment on the 13 Draft EE's liste above. These demonstrations provide the supporting evidence that on the days indicated for 2012 2015 and 2016 Air District air monitors were affected by entrained elevated levels of particulate matte of an aerodynamic size less than 10 microns (PM10). Winds, associated with a weather event entraired PM10 into the region affecting Riverside, Imperial and San Diego counties. The 13 Draft EE's provide the scientific justification for the requested exclusions. The Air District is soliciting and acceptin comments for 30 days commencing the date of the publication of this notice. The final closing date for submitting comments is February 12, 2018 by close of business.

The 13 Draft EE's for days listed above are available for download at the Air District website a www.co.imperial.ca.us, under "Air Pollution". To view a hard copy of any of the 13 Draft EE's, pleas visit the Air Pollution Control District office at 150 S. 9th Street, El Centro. Should you have any questions or concerns please feel free to call our office between 8am and 5pm at (442) 265-1800 and as for Monica N. Soucier.

J10

**Fig A-18:** Is a copy of the Imperial County Air Pollution Control District official record (affidavit) affirming the publication of the notice of availability of the Exceptional Events Demonstration for March 11, 2016. The date for closing comments was February 12, 2018

## FIGURE A-19 IMPERIAL COUNTY COMMENTS REGARDING THE MARCH 11, 2016 EE DEMONSTRATIONS

The ICAPCD received no comment